BRUHATH BENGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE

Name of Work :- Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and Surrounding area at Kattigenahalli in Ward No.05

						Estimated Cost:97.00 Lkahs			
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	Quantity to be Executed								
	Kattigenahalli								
	Someshwara Layout								
	For RCC Drain								
	2nd B Cross (RHS)	1	314.00	1.20	1.10	414.48			
	2nd B Cross (LHS)	1	278.00	1.20	1.10	366.96			
	Cross-2 (RHS)	1	65.30	1.20	1.10	86.20			
	Cross-2 (LHS)	1	60.00	1.20	1.10	79.20			
	Cross-3 (LHS)	1	70.00	1.20	1.10	92.40			
	For RCC Culvert								
	2nd B Cross	1	8.10	1.80	1.10	16.04			
		1	8.00	1.80	1.10	15.84			
	Cross-1	1	6.50	1.80	1.10	12.87			
	Cross-3	1	6.50	1.80	1.10	12.87			
	Cross-4	1	8.00	1.80	1.10	15.84			
	For CC Road								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20	0.30	72.96			
	Cross - 1	1	33.00	2.70	0.30	26.73			
	2nd B Cross	1	75.00	5.40	0.30	121.50			
					Total	**1333.88**			
					Schedule-B Quantity	**1160.07**			
					Quantity Upto 125%	**1333.88**	**Cum**	**137.80**	**183809.22**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Data Rate	**137.80**							
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 PWD SR 2018-19)**								
	Quantity to be Executed								
	Kattigenahalli								
	Someshwara Layout								
	For RCC Drain								
	2nd B Cross (RHS)	1	314.00	1.20	0.15	56.52			
	2nd B Cross (LHS)	1	278.00	1.20	0.15	50.04			
	Cross-2 (RHS)	1	65.30	1.20	0.15	11.75			
	Cross-2 (LHS)	1	60.00	1.20	0.15	10.80			
	Cross-3 (LHS)	1	70.00	1.20	0.15	12.60			
	For RCC Culvert								
	2nd B Cross	1	8.10	1.80	0.15	2.19			
		1	8.00	1.80	0.15	2.16			
	Cross-1	1	6.50	1.80	0.15	1.76			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Cross-3	1	6.50	1.80	0.15	1.76			
	Cross-4	1	8.00	1.80	0.15	2.16			
	For CC Road								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20	0.15	36.48			
	Cross - 1	1	33.00	2.70	0.15	13.37			
	2nd B Cross	1	75.00	5.40	0.15	60.75			
					Total	**262.33**			
					Schedule-B Quantity	**335.78**			
					Total	**262.33**	**Cum**	**5509.33**	**1445239.63**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm **(I No-37.59.2,P No-271 PWD SR 2018-19)**								
	Quantity to be Executed								
	Someshwara Layout								
	For RCC Bottom Raft								
	For RCC Drain								
	2nd B Cross (RHS)	1	314.00	0.90	0.15	42.39			
	2nd B Cross (LHS)	1	278.00	0.90	0.15	37.53			
	Cross-2 (RHS)	1	65.30	0.90	0.15	8.82			
	Cross-2 (LHS)	1	60.00	0.90	0.15	8.10			
	Cross-3 (LHS)	1	70.00	0.90	0.15	9.45			
	For RCC Culvert								
	2nd B Cross	1	8.10	1.50	0.20	2.43			
		1	8.00	1.50	0.20	2.40			
	Cross-1	1	6.50	1.50	0.20	1.95			
	Cross-3	1	6.50	1.50	0.20	1.95			
	Cross-4	1	8.00	1.50	0.20	2.40			
	For RCC Wall								
	For RCC Drain								
	2nd B Cross (RHS)	2	314.00	0.15	0.75	70.65			
	2nd B Cross (LHS)	2	278.00	0.15	0.75	62.55			
	Cross-2 (RHS)	2	65.30	0.15	0.75	14.69			
	Cross-2 (LHS)	2	60.00	0.15	0.75	13.50			
	Cross-3 (LHS)	2	70.00	0.15	0.75	15.75			
	For RCC Culvert								
	2nd B Cross	2	8.10	0.30	0.60	2.92			
		2	8.00	0.30	0.60	2.88			
	Cross-1	1	6.50	0.30	0.60	1.17			
	Cross-3	1	6.50	0.30	0.60	1.17			
	Cross-4	1	8.00	0.30	0.60	1.44			
					Total	**304.13**			
					Schedule-B Quantity	**249.62**			
					Quantity Upto 125%	**304.13**	**Cum**	**7189.42**	**2186546.51**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 **(I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 65kg/Cum for drain	1	283.43	65.00		18422.82			
	Consider 90kg/Cum for culvert	1	20.71	90.00		1863.54			
					Total	**20.29**			
					Schedule-B Quantity	**16.98**			
					Quantity Upto 125%	**20.29**	**Tonne**	**72326.98**	**1467251.15**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Data Rate	**72326.98**							
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.**(Data Rate)**								
	Quantity to be Executed								
	For RCC Drain								
	Someshwara Layout								
	2nd B Cross (RHS)	1	314.00	0.90		282.60			
	2nd B Cross (LHS)	1	278.00	0.90		250.20			
	Cross-2 (RHS)	1	65.30	0.90		58.77			
	Cross-2 (LHS)	1	60.00	0.90		54.00			
	Cross-3 (LHS)	1	70.00	0.90		63.00			
					Total	**708.57**			
					Schedule-B Quantity	**549.00**			
					Quantity Upto 125%	**686.25**			
					Quantity above 125%	**22.32**			
					Total	**708.57**	**Sqm**	**2337.00**	**1655928.09**
	Data Rate	**2337.00**							
6	Providing and fixing Precast RCC slab of **250mm thick for Culverts** made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. **(Data Rate)**								
	Quantity to be Executed								
	New Precast Slab								
	For Culvert								
	2nd B Cross	1	8.10	1.50		12.15			
		1	8.00	1.50		12.00			
	Cross-1	1	6.50	1.50		9.75			
	Cross-3	1	6.50	1.50		9.75			
	Cross-4	1	8.00	1.50		12.00			
					Total	**55.65**			
					Schedule-B Quantity	**23.70**			
					Quantity Upto 125%	**29.63**			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					Quantity Above 125%	26.03			
					Total	55.65	Sqm	5418.00	301511.70
	Data Rate	5418.00							
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.**(P.No. 147, I.No. 19.64 PWD SR 2018-19)**								
	Quantity to be Executed								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20		243.20			
	Cross - 1	1	33.00	2.70		89.10			
	2nd B Cross	1	75.00	5.40		405.00			
					Total	737.30			
					Schedule-B Quantity	1540.70			
					Total	737.30	Sqm	6.36	4689.23
8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)**								
	Quantity to be Executed								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20	0.15	36.48			
	Cross - 1	1	33.00	2.70	0.15	13.37			
	2nd B Cross	1	75.00	5.40	0.15	60.75			
					Total	110.60			
					Schedule-B Quantity	231.11			
					Total	110.60	Cum	2001.28	221331.56
9	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**								
	Quantity to be Executed								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20	0.15	36.48			
	Cross - 1	1	33.00	2.70	0.15	13.37			
	2nd B Cross	1	74.40	5.40	0.15	60.26			
					Total	110.11			
					Schedule-B Quantity	231.11			
					Total	110.11	Cum	5354.02	589525.79
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.**(Page No. 178.tem No.22.7,PW,P & IWTD SR 2018-19)**								
	Quantity to be Executed								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20		243.20			
	Cross - 1	1	33.00	2.70		89.10			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2nd B Cross	1	75.00	5.40		405.00			
					Total	737.30			
					Schedule-B Quantity	1540.70			
					Total	737.30	Sqm	72.08	53144.58
EIRL-1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No. 140/ Item No. 18.47/ PWD SR 2018-19)**								
	Quantity to be Executed								
	Doddamma Devi Temple Opposite Road	1	76.00	3.20	0.15	36.48			
	Cross - 1	1	33.00	2.70	0.15	13.37			
	2nd B Cross	1	75.00	5.40	0.15	60.75			
						110.60	**Cum**	**952.94**	**105390.40**
	Basic Rate	899.00							
	Area Weightage 6%	53.94							
	Data Rate	**952.94**							
EIRL-2	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification **(I No-2.10,P No-7 PWD SR 2018-19)**								
	Vide 50% of Qty No.1					**666.94**	**Cum**	**217.08**	**144779.77**
	Basic Rate	201.00							
	Area Weightage 8%	16.08							
	Data Rate	**217.08**							
								Total Construction Cost	**8359147.64**
								GST Charges 12%	**1003097.72**
								KRIDL Charges 4%	**334365.91**
								Sub Total	**9696611.26**
								Utility Shifting,Miscellaneous and Rounding off	**3388.74**
								GRAND TOTAL	**9700000.00**

Certificate

1) This Work Comes Within BBMP Limits.

2) Certified that personaly Inspected the Work Spot.

3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & Issued Rate 02.07.2020

4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way

5) This work is not include in any other program of work.

Assistant Engineer
Ward No.05

Asst. Executive Engineer,
Byatarayanapura Sub division,

Executive Engineer,
Byatarayanapura Division,

Technical Sanction
Accorded For Rs 97,00,000/-
Head of A/C P.3736
CER NO :...29..... Dt:15.09.2020